1. One of the following describe A-delta Fibers?

A. Rapidly conducting myalinated fibers (neruns..) respond to Light touch
B. Rapidly conducting unmyalinated fibers respond to Light touch.
C. Fast conducting lightly myalinated fibers a sharp or tengling Sensation
D. Fast conducting unmylinated fibers a sharp or ~~teng~~ Sensation Dull - picking.

2. What is the main advantage of the third generation apex-Locator to the second generation?

A. The apex Locator third generation are more accurate in conduct ē (with) Irrigation
B. The apex Locator third generation are more accurate in conduct ē metals
C. The apex Locator third generation are more accurate in conduct ē vital
D. The apex Locator third generation are more accurate in conduct ē necrotic

3. What of the following is the benefite of Narrow apical preparation over wide apical size preparation?

A. Ideal for Lateral compaction
B. Better Irrigation exchange
c. More Removal of infected dentin
d. Minimal risk of canal Transportation.

4. Sudden Radiographic disapperance of a canal (See Radiograph) might Indicate which of the following.

A. MEtamorphosis (Calcific metamorphosis). * (with absene of Pulp chamber.)
B. Accumlation of diffuse Calcification
C. Overdensity of Overlying bone.
D. Seperation to two Canals.

5. 11y/o femal Patient referred to the clinic to evalute tooth #45 and treat as needed (see radiograph). The Patient is medically fit. doesn't complain from any Pain. Tooth #45 responsed -ve to the Pulp test. Percussion, Palpation, Bite and Periodontal Probing tests all within normal limit.

The final endodontic dx. for tooth # is Pulp necrosis with asymptomatic apical Peridontitis.

• Based on the information Provided and Radiograph, what is the Possible Cause of Pulp necrosis in tooth #45?

A. Caries defect
B. Root Fractum.
C. Dens evaginatus
d. Radix entomolaris

X-ray

6. Which of the following radiographic technique used to Identify Lingual Canals from buccal Canals in mandibular molar with four Canals?

A. Clark's rule
B. Win's rule
C. Hess's rule
d. Howard's rule.

7. Which technique among the following is not considered as Supplemental L.A?

A. Intraligamental.
B. Intra pulpal.
C. Intragingival.
D. Intraosseus.

8. Among the following L. which one is considered short duration L.A?

Ⓐ Bupivacaine.
B. Lidocaine -
C. Ropivacaine.
D. Etido caine.

9- Spread of infection in endo is fast in which of the following cases?

A. Necrotic teeth
B. Periodontally involoved teeth
C. Irreversible Pulpitis
d. Reversible Pulpitis.

10- Carious Pulp exposure always associated with which of the followings?

A. Inflammatory response or Fat necrosis.
B. Inflammatory response Or gangrenous necrosis
C. Inflammatory response or Liquefacatide necrosis.
d. Inflammatory respone. or fibroid necrosis.

11- According to Brann strom & Astrom 1972; In early Caries before dentin has been exposed which of the followings occur

A. Cold may occasionally Produced Pain
B. Hot may occasionally Produced Pain
C. Cold and Hot Could Produce Pain
d. No Pain could be experienced.

12- Which of the following are microorganisms that were members of other infection and in some way struggled intracanal antimicrobial procedures?

A. Primary infection.

B. Secondary infection.

C. Tertiary infection.

D. Persistent infection.

13. Based on Sundqvist et. al. study (1992). on the ecology of root canal flora; what is/are the key factor(s) in determining the outcome of infection?

A. Bacterial load

B. Bacterial interrelationships

C. The nutritinal supply.

D. Bacterial interrelationships and nutritional supply.

14. Effectiveness of various medications on postoperative pain following complete instrumentation and following obturation was studied seperatly by Torbinejad et al (1994). What was the combind conculosion of the 2 studies?

A. Incidance of postoperative pain following complete clening and shaping is lower than that after obturation.

B. Incidance of postoperative pain after obturation is lower than that the following complete clening and shaping.

C. Incidance of postoperative pain after obturation is same as that following complete cleaning and shaping.

d. Pain was recorded after either treatment steps.

15. what is the effect of Prophlactic administration of antibiotics on incidance of flare-ups?

A. Very effective

B. Slightly effective

C. Not effective

D. Associated with an increse in flare-ups.

16- Treatment of severe throbbing pain assciated with irriversable Pulpitis and acute apical Periodontitis is best manged by which of the following?

A. Pulpotomy

B. Partial Pulpectomy.

C. Pulpectomy

D. analgesic agents.

17. Which of the following cells is usually not presented in the cellular infiltiration in chronic apical Periodontitis?

A. Plasma cells

B. Lymphocytes

C. Macrophages.

D. Mast cells.

18. Tooth *46 (First molar) causes the Patients pain that increses during mastication. The tooth responds to percussion and there is no swelling. Periodontaly Probing is within normal limits. - what the Pulpal diagnosis?

A. Reversable Pulpitis

B. Irriverasable Pulpitis

C. Necrotic

D. Pending, need further information.

X-ray

19. In the previous case, what is the LIKELY appearance of Pulp histologically?

(A). Coronal Pulp is necrotic, radicular Pulp is inflamed.
(B). Coronal Pulp is Inflamed, radicula Pulp is normal.
(C). The entire Pulp is inflamed
(D). The entire Pulp is necrotic

20. For how long EDTA remains active within the root Canal if not inactive?

A. 5 days
B. 30 days
C. 10 days
D. 15 days.

21. A general Practitioner referred a pt. to you for a root Canal Treatment. Radiographs were Provided with the referral. You should obtain anew Preoperative radiograph during which of the film reveals of the following Situations?

A. When the film reveals a radiolucent.
B. Immediately before examination the pt.
C. No need to obtain radiograph.
D. When the film is more than One month old.

22. Which of the following is Considered a Positive Predictor of Post-Operative endodontic Pain?

A. Gender
B. Clinician's skill
C. Race.
D. Preoperative hyperalgesia.

23. Based on the literature, what is the minimum Connector Surface area to improve the success rate of Posterior 3unit E_Max bridge?

A. $10 mm^2$

B. $12 mm^2$

C. $15 mm^2$

D. $16 mm^2$

24. There are different mechanisms that lead to toughened or Strengthened Ceramics. Dispersion strengthening is best explained by which mechanism?

A. Crak tip interaction

B. Crack tip Shielding

C. Crack bridging

D. Crack redirection

25. What is the most common mode of failure for fiber Posts?

A. Fracture of the Core

B. Root Fracture

C. Debonding of the Post.

D. Tooth fracture.

26. The retention of the fiber Post is Related Primarily to which of the following?

A. The length of the Post

B. The width of the Post

C. The size of the Post

D. The Typer of resin Cement.

27. Which of the following shapes of the condyle helps distribute stress throughout the TMJ?

A. Spherical

B. Elliptical

C. Cone.

D. Ovoid.

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28. Condyles rotating in Lower Compartment of the TMJ about in a horizontal axis result in which of the following?

A. Protrusive movement

B. Hinge movement.

C. Orbiting

D. Translation.

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29. Which of the followings is a Premature Contact occurring between distal facing Inclines of maxillary Posterior teeth and mesial facing inclines of mandibular Postierior teeth?

A. Non-working interference.

B. Protrosive interference.

C. Working Interference.

D. Centric Interference.

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30. Which of the followings is an Occlusal Scheme in which the maximum number of teeth Contact in all excusive Positions of the mandible?

A. Mutually Protected Occlusion

B. Bilateral Balanced Occlusion

C. Organic Occlusion

D. Group Function

31. What is the surface morphology of restored Posterior teeth, with an increased Intercondylar distance?

A. Short cusp.

B. Tall Cusp

C. Decreased angle between working and non-working Paths

D. Increased angle between working and non-working Paths

32. What is the average Intercondylar distance on a semi-adjustable articulator?

A. 90 mm

B. 100 mm

C. 110 mm

D. 120 mm.

33. Which Jaw maniplation is recommended as reproudicable and reliabely learned?

A. Single handed approach

B. Chin guidance.

C. Bimanual technique.

D. Swallowing technique.

34. Which mandibular ligament limits mandibular rolation on Opening?

A. Tempromandibular superficial ligament.

B. Tempromandiblular medial ligament.

C. Sphenomandibular ligament.

D. Stylomandibular ligament.

35. Which of the followings is a Criteria of Semiadjustable articulator?

A. Reproduce the entire border movements including immediate and Prfressive Lateral translation

B. Reproduce Curvature and direction of the condylar Inclination

C. Kinametic location of hing axis.

D. Intercondylar distance fixed.

36. Anterior teeth are suited for guidance by virtue of which of the following lever Classes?

A. Class I lever
B. Class II Lever
C. Class III Lever
D. Class IV Lever

37 - A (19) year Old male Pt. Presented to your Clinic for Surgical removal of #18 and #48. the Past medical history is in significant and he is not taking any medications, he Looked anxious and said that he is little exhausted following football training for about 90 minutes before attending his appointment As you Are about to give IANB injection for the right side, the Pt. stated he is feeling Sweaty, dizzy and light-headed, nauseating and he Looked Pale with cold extremities. The vital Sings were blood Pressure (BP) 118/75 mm Hg, Pulse rate 64 b/pm and respiratory rate (RR) 18. (Questions No. 37, 38).

37 → what is mos common medical emergency that can occor in the dental Clinic?

A. Choking
B. Syncope
C. Hyperventilation
D. Heart attack.

38 → What is the first step to mange this Condition after stopping the Pro Cedure?

A. Place the Pt. in supine Position with legs elevated
B. Activate the office emergney system.
C. $O_2$ via nasal Cannula at 4L/min
D. Ammonia Stimulant under the nose.

39. According to Tarnow's research, marginal tissue recessions Caused by tooth Preparations impinging on the Junctional epithelium seem to stabillize within which of the followings?

A- 6 weeks Period

B. 2 weeks Postoperatively with no further apical migration

C. 4 weeks Postoperatively with no further apical migration

D. 2 weeks Postoperatively and reserve themselves within the next 2 weeks

40. Which one of the following Cannot be considered as a guideline for Crown contoring to Promote favorable tissue response?

A. Proximal contact should be high.

B. Embrasure space should be open

C. Furcation should be fluted or barreled out

D. Buccal and Lingual should be over contoured to prevent food impaction.

41- Which of the followings is a Contraindication to Implant Placement?

A. Realistic Pt. expection.

B. Inability to wear a removable Partial dental Prosthesis or complete denture.

C. Need for Long span fixed dental Prosthesis with questionable Prognosis

D. Terminal illness.

44. When Connecting Implants to Natural teeth, potential Problems could occur with this type of restoration. which of the following Problems Can occur?

A - Intrusion of Implant.

B. Cement failure on the implant abutment

C. Screw or abutment Loosening

D. Only technical Problems Occur.

45. Which of the following Location poses a specific concerns during implant placement. (less dense bone, Larger marrow spaces and thinner Cortex. limited bone height due to Pneumatization?

A. Antenior Mandible

B. Posterior Mandible

C. Anterior Maxilla

D. Posterior Maxilla.

46. Which of the followings Can cause early implant failure?

A. Peri-implantitis

B. Overloading due to inadequate implant length or Inadequate Prosthesis design

C. Failure to maintain good oral hygiene.

D. Poor Surgical technique.

42 :

A-

B-

C- To minimize harmful Lateral forces, the Long axis of the Implant should be Positioned Prependicular to the Central fossal of the restoration

D- Ideally, the superior surface of the Implant should be 5,0 to 6,0 mm directly inferior to the emergence Posito of the planned restoration, or to CEJ of the adjesent teeth

43. Relationsphip of interdental bone to position of interproximal contacts seems to predict whether interdental Papilla will be present or not.

How much should the distance between the bone and the contact be for a papilla to be Present?

A- < 5 mm

B- > 6 mm

C- > 8 mm

D- < 10 mm

105. A psychiatrist is conducting a trial on a drug that would (if the trial succeeds) e suicidal tendency in severely depressed patients who are not regularly taking their edications after giving their consent.

What is the ethical position for this trial?

A. Unacceptable because of doubtful drug efficacy
B. Acceptable because reduces patients' suffering
C. Acceptable because the consent was voluntary
D. Unacceptable due to lack of patients' competence

106. The following are weights (in kilograms) of a group of nine children:

21, 13, 13, 12, 14, 14, 14, 5, 6

Which of the following best describes the distribution?

A. Multimodal
B. Unimodal
C. No mode
D. Bimodal

107. Five hundred babies who were exposed to diethylstilbestrol (DES) *in utero* were followed up for twenty years and the occurrence of cancer in this group was compared with that of 1,500 babies not exposed to DES, over the same period of time.
What is the study design?

A. Cohort

101. One of the most recent and prominent schools of ethical judgment is the so-called '4 Principles' developed by Childress and Beauchamp. Use these four principles to answer the question below.

Which of the following shows respect for patients' autonomy?

A. Make sure each patient gets a bed
B. Prescribe only registered drugs
C. Take consent for treatment
D. Do no harm to the patient

102. Mrs. H. is 36 a year-old mother of five, all alive and well. She has had two abortions and is now pregnant again (13 weeks' gestation). She comes to the clinic for a regular ante-natal care visit with her husband to hear the results of the latest blood tests and diagnostic imaging. The details of the two abortions are missing from the clinical notes. As part of the physical examination, she is informed that her blood pressure needs to be taken. She then extends her arm. The doctor interprets that as consent and took her blood pressure.

Which statement best describes this situation?

A. Not consent, because there was no form signed
B. Female nurse should have taken her consent
C. Pregnant women cannot give consent alone
D. Arm extension is implicit consent

103. Which of the following historical events led to the development of the Nuremberg Code?

A. Kano Trovan Trials
B. Tuskegee Syphilis Trials
C. Willowbrook New York Study
D. Nazi Experiments on prisoners

- When examing Interproximal lesions radiographically, what level at which a restoration is indicated?
  A. Outer half of enamel.
  B. Inner half of enamel.
  C. Outer half of dentin.
  D. Inner half of dentin.

- 17 years old male Patient Came to your Clinic. Upon bitewing examination multiple Proximal enamel lesions were evident. What those lesions
  A. Active Progressing Caries
  B. Inactive Caries
  C. High Caries risk
  D. Low Caries risk.

- Why do incipient Caries lesions appeare chalky white?
  A. Absorption of extrinsic stains.
  B. Differences in Reffractive Index.
  C. High mineral Content in surface layer.
  D. More dynamic demineralization/Reminiralization cycles

- What is the critical level of unstimulated salivary flow rate in ML/min. at we consider the patient as having a Low salivary flow?
  A. 1,0
  B. 0,7
  C. 0,1
  D. 0,01